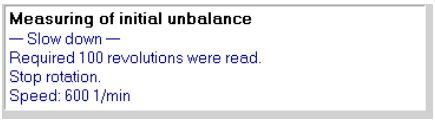
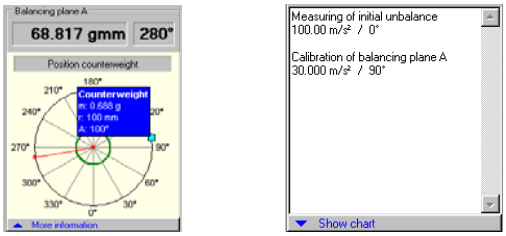
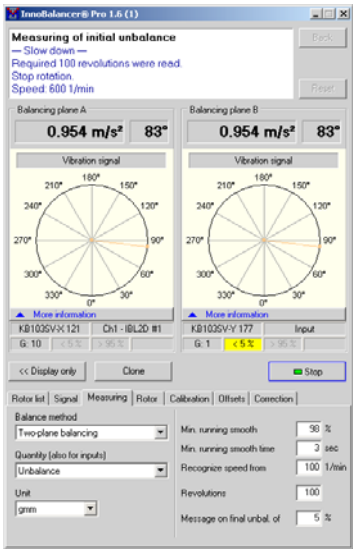
InnoBalancer
Balancing Instruments



A clear guide supports the customer.



More balancing information, graphically and in plain text



InnoBalancer during measurement

Application

The InnoBalancers are used for the reduction of vibrations.

Rotating parts in drives, gears, pumps, fans and many other technical products cause perturbing vibrations. These vibrations often have to be reduced in order to increase the quality and the durability of products.

The InnoBalancers allow a purposeful reduction of the vibration by balancing. Both discoidal and longish rotors can be balanced systematically and fast.

The InnoBalancers support field balancing. Ideally, the rotor is balanced directly in installed state. So you save the complex dismantling and the transport of the rotor to a balancing machine. In many cases, an acceptable performance can only be achieved by balancing the installed rotor with all attached parts.

Properties

3 versions of the InnoBalancer are offered. The Light Version already allows Single-Plane-Balancing or Two-Plane-Balancing as well as balancing by add weight/remove weight, drilling, milling and balancing rings. The Standard Version additionally offers balancing with fixed positions and balancing with setscrews. In the Pro Version, the fixed positions can be configured with different correction modes or parameters. Additionally, it offers a rotor list, in which the intermediate runs can be saved as well. They can be reloaded again to continue the measurement.

The user is guided through the balancing process by a text message window. Thanks to the auto recognition for rotation speed, the user does not need to start a measurement manually.

Results are displayed numerically as well as in a polar chart, which is allocated to each balancing plane. For further information a window can be opened when required.

A powerful report-function generates balancing-reports acc. to individual requirements. After having configured it once, you generate balancing reports at the push of a button.

ALTHEN GmbH Mess- und Sensortechnik
Frankfurter Str. 150 - 152 ☏ +49 6195 70060 http://www.althensensors.com
65779 Kelkheim / Germany 🖷 +49 6195 700666 info@althen.de

Technical Data

Model	InnoBalancer Pro	InnoBalancer	InnoBalancer Light
Methods			
Balancing	Single-Plane-Balancing Two-Plane-Balancing Unbalance adjustment	Single-Plane-Balancing Two-Plane-Balancing	Single-Plane-Balancing Two-Plane-Balancing
Correction	Add weight Remove weight Drilling Milling Balancing rings Setscrews Counterweight list	Add weight Remove weight Drilling Milling Balancing rings Setscrews	Add weight Remove weight Drilling Milling Balancing rings
Fixed positions	3 ... 99, individually adjustable	3 ... 99, uniformely adjustable	---
Signal Processing			
Vibration measurands	Acceleration in m/s², mm/s², µm/s², nm/s², pm/s², g, mg Velocity in m/s, mm/s, µm/s, nm/s, pm/s, in/s Displacement in m, mm, µm, nm, pm, in		
Unbalance measurands	Unbalance in mgmm, gmm oder gm Mass based on radius in mg, g oder kg		
Rotation speed	6 ... 600000 min^{-1} *		
Speed recognition	Automatic recognition of run-up, constant rotation speed and slow -down		
Graphical Presentation			
User guide	Four-line textual instructions for measuring the initial unbalance, calibration and verification runs		
Vector indications	Numeric, in polar chart and in text list		
Balancing indications	Numeric and in polar chart		
Correction indications	Positioned numerically in polar chart and extended in description field		
Polar chart	Indication of vibration signal with value and angle, unbalance with value and angle, tolerance zone for pass-/fail-recognition, fixed positions, correction		
Recommended Screen resolution	minimum 1024 x 768 pixels		
Miscellaneous			
Rotor list	yes	--	--
Save intermediate measurements	yes	--	--
Kit availability	on request		
General functions	Hold of measured data after switch-off, instrument is cloneable		

* with InnoBeamer L2: 6 ... 20000 min^{-1}

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.

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